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10/828 466

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 NEWS 3 New STN Analyst pricing effective March 1, 2006
 NEWS 4 CA/Caplus enhanced with 1900-1906 U.S. patent records
 NEWS 5 KOREAPAT updates resume
 NEWS 6 Derwent World Patents Index to be reloaded and enhanced
 NEWS 7 IPC 8 Rolled-up Core codes added to CA/Caplus and
 NEWS 8 USPTA/USPAT2
 NEWS 9 The F-term thesaurus is now available in CA/Caplus
 NEWS 10 The first reclassification of IPC codes now complete in
 NEWS 11 INPADOC
 NEWS 12 TULISA/TULSA2 reloaded and enhanced with new search and
 NEWS 13 display fields
 NEWS 14 Price changes in full-text patent databases EFPULL and PCTFULL
 NEWS 15 CHEMSTATE reloaded and enhanced
 NEWS 16 FSTA enhanced with Japanese patents
 NEWS 17 Coverage of Research Disclosure reinstated in DWPI
 NEWS 18 INSPEC enhanced with 1898-1968 archive
 NEWS 19 ADISCTI Reloaded and Enhanced
 NEWS 20 CA(SM)/Caplus(SM) Austrian patent law changes
 NEWS 21 CA/Caplus fields enhanced with more pre-1907 records
 NEWS 22 truncation
 NEWS 23 CA(SM)/Caplus(SM) display of CA Lexicon enhanced
 NEWS 24 CAS REGISTRY(SM) no longer includes Concord 3D coordinates
 NEWS 25 CAS REGISTRY(SM) updated with amino acid codes for pyrolysine
 NEWS 26 CEABX-VTB classification code fields reloaded with new
 NEWS 27 classification scheme

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
 MACINTOSH VERSION IS V6.0C(ENG) AND V6.0TC(UP),
 AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

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STRUCTURE FILE UPDATES: 10 OCT 2006 HIGHEST RN 910095-75-9

DICTIONARY FILE UPDATES: 10 OCT 2006 HIGHEST RN 910095-75-9

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TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

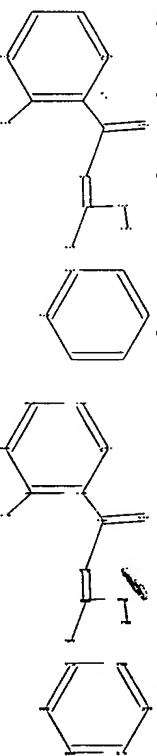
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<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\SODIUM CHANNEL PYRAZINE 10828329 - #3.str



chain nodes : 7 8 9 10 11 12 13 14

ring nodes : 1 2 3 4 5 6 16 17 18 19 20 21

chain bonds : 5-8 6-7 8-9 10-11 11-12 11-14 12-13

ring bonds : 1-2 1-6 2-3 3-4 4-5 5-6 16-17 16-21 17-18 18-19 19-20 20-21

exact/norm bonds : 6-7 8-9 8-10 10-11 11-12 11-14

exact bonds : 5-8 12-13

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isolated ring systems :

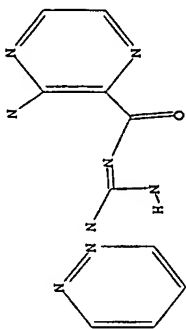
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Match level :

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 11:CLASS 12:CLASS 13:CLASS 14:CLASS 16:Atom 17:Atom 18:Atom 19:Atom
 20:Atom 21:Atom

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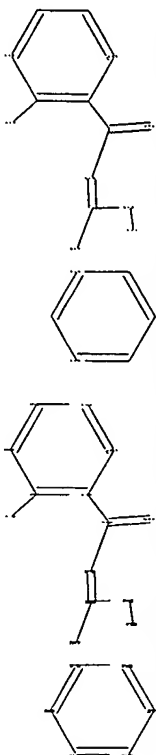
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"6" RING IS
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Structure attributes must be viewed using STN Express query preparation.

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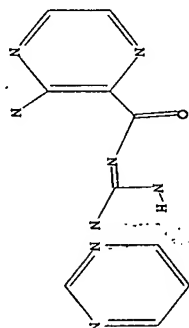


Chain nodes :
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ring nodes :
1 2 3 4 5 6 16 17 18 19 20 21
chain bonds :
5-8 6-7 8-9 8-10 10-11 11-12 11-14 12-13
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 16-17 16-21 17-18 18-19 19-20 20-21
exact/norm bonds :
6-7 8-9 8-10 10-11 11-12 11-14
exact bonds :
5-8 12-13
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 16-17 16-21 17-18 18-19 19-20 20-21
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
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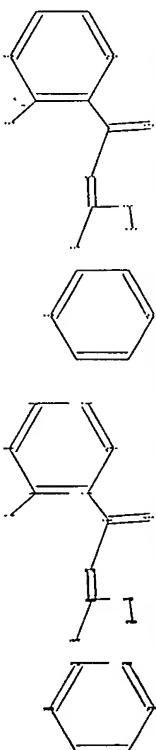
=> D L2
L2 HAS NO ANSWERS
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"6" RING IS
1,3-PYRAZINE

Structure attributes must be viewed using STN Express query preparation.

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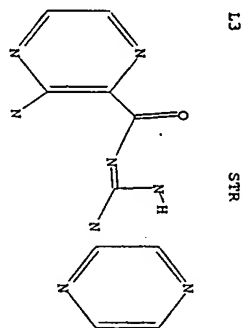


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ring nodes :
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chain bonds :
5-8 6-7 8-9 8-10 10-11 11-12 11-14 12-13
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exact/norm bonds :
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exact bonds :
5-8 12-13
normalized bonds :
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isolated ring systems :
containing 1 :

Match level :
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11:CLASS 12:CLASS 13:CLASS 14:CLASS 16:Atom 17:Atom 18:Atom 19:Atom
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L3 STRUCTURE UPLOADED

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"6,6' RING IS
1,4-DIAZINE

SEARCHED ALL THREE

Structure attributes must be viewed using STN Express query preparation.

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SEARCH TIME: 00.00.01

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BATCH **COMPLETE**
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PROJECTED ANSWERS: 0 TO 0

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BATCH **COMPLETE**
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PROJECTED ANSWERS: 0 TO 0

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BATCH **COMPLETE**
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PROJECTED ANSWERS: 2 TO 124

L6 2 SEA SSS SAM L3

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SEARCH TIME: 00.00.01

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-> S L3 SSS FULL
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100.0% PROCESSED 71 ITERATIONS 20 ANSWERS
SEARCH TIME: 00.00.01

L9 20 SEA SSS FULL L3

-> FILE CAPLUS
COST IN U.S. DOLLARS SINCE FILE ENTRY SESSION
FULL ESTIMATED COST 500.82 501.03

FILE 'CAPLUS' ENTERED AT 08:40:08 ON 11 OCT 2006
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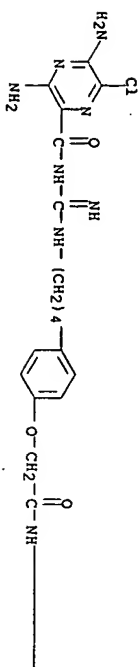
-> S L8 OR L9
7 L8
4 L9
11 L8 OR L9

-> D 1-11 IBIB ABS HITSTR

L10 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2005:346797 CAPLUS
DOCUMENT NUMBER: 142:411366
TITLE: Preparation of pyridazinylcarbonyl-substituted ureas
used for reducing risk of infection from pathogens
INVENTOR(S): Johnson, Michael R.; Hopkins, Samuel E.

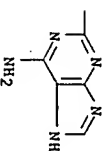
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RN 847200-90-2 CAPLUS
CN Pyrazinecarboxamide, 3,5-diamino-N-[[[4-(4-(2-((6-amino-1H-purin-2-yl)amino)-2-oxoethoxy)phenyl]butyl)amino]iminoethyl]-6-chloro- (9CI) (CA INDEX NAME)

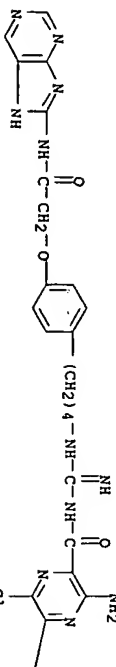


PAGE 1-A

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RN 847200-91-3 CAPLUS
CN Pyrazinecarboxamide, 3,5-diamino-6-chloro-N-[[[amino[[4-(4-(2-oxo-2-(1H-purin-8-ylamino)ethoxy)phenyl]butyl)amino]methyl]]-(9CI) (CA INDEX NAME)



PAGE 1-A

PAGE 1-B

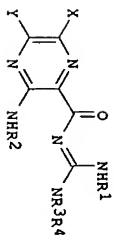
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L10 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:177896 CAPLUS
DOCUMENT NUMBER: 142:280225
TITLE: Preparation of capped aminopyrazinoylguanidines as sodium channel blockers

INVENTOR(S): Johnson, Michael R.; Molino, Bruce F.; Zhang, Jianzhong; Sargent, Bruce J.
PATENT ASSIGNEE(S): Parion Sciences, Inc., USA
SOURCE: PCT Int. Appl., 100 pp.
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION: CODEN: PIXXD2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005018644	A1	20050303	WO 2004-US26885	20040818
WO 2005018644	B1	20050512		
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RW: BW, GH, GM, KE, LS, MM, NZ, NA, SD, SI, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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CA 2534682	AA	20050303	CA 2004-2534682	20040818
US 2005080091	A1	20050414	US 2004-920410	20040818
US 7064129	B2	20060620		
EP 1663235	A1	20060607	EP 2004-781545	20040818
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US 2005234072	A1	20051020	US 2005-131262	20050518
US 20052828182	A1	20051013	US 2005-138280	20050527
US 2006052384	A1	20060309	US 2005-211422	20050826
US 2006052385	A1	20060309	US 2005-211660	20050826
US 2006205738	A1	20060914	US 2005-211707	20050826
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OTHER SOURCE(S): MARPAT 142:280225



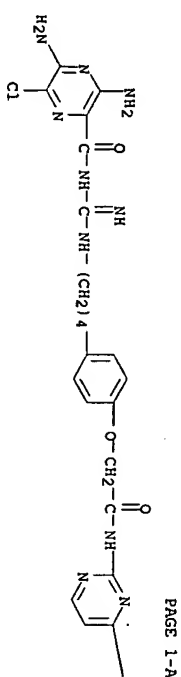
AB Title compds. [I; X = H, halo, CF3, alkyl, (substituted) Ph, etc.; Y = H, OH, SH, alkoxy, alkylthio, halo, alkyl, (substituted) aryl, etc.; R1 = H, alkyl, R2 = R7, (CH2)mOR8, (CH2)mNR9R10, (CH2)2mR11, etc.; m = 1-7; R3, R4 = H, alkyl, hydroxyalkyl, Ph, phenylalkyl, naphthylalkyl, pyridylalkyl, etc.; R7 = H, alkyl, (substituted) Ph, etc.; R8 = H, alkyl, 2-tetrahydropyranyl, glucuronide, etc.; R10 = H, SO2Me, COR13, CO2R13, etc.; R13 = H, R7, R10, etc.; with proviso(s), were prepared. Thus, [4-(4-hydroxyphenyl)butyl]carbamate acid benzyl ester in EtOH at 70° was treated with oxalanylmethanol over 4 h to give 4.68 [4-(4-13-12,3-dihydroxypropoxy)-2-hydroxypropoxy]phenyl]butyl]carbamate acid benzyl ester. This was hydrogenolyzed in EtOH over Pd/C to give 511 3-[3-(4-(4-aminobutyl)phenoxy)-2-hydroxypropoxy]propane-1,2-diol. The

latter was stirred with Et3N and 1-(3,5-diamino-6-chloropyrazine-2-carbonyl)-2-methylisothiourea hydroiodide in EtOH at 65° to give 368 N-(3,5-diamino-6-chloropyrazine-2-carbonyl)-N'-(4-(4-(2-(2,3-dihydroxypropoxy)-2-hydroxypropoxy)phenyl)butyl)guanidine (PSA 15143). The latter showed Na channel blocking activity with EC50 = 7 nM.

IT 847200-87-7P 847200-90-2P 847200-91-3P
 RL: PAC (pharmacological activity); SPN (synthetic preparation); THU (therapeutic use); BIOL (biological study); PREP (preparation); USDS (uses)

(claimed compound; preparation of aminopyrazinylguanidines as sodium channel blockers)

RN 847200-87-7 CAPLUS
 CN Pyrazinecarboxamide, 3,5-diamino-N-([4-(4-(2-(2-(2,3-dihydroxypropoxy)-2-hydroxypropoxy)phenyl)butyl)amino]methyl)]-6-chloro- (9CI) (CA INDEX NAME)

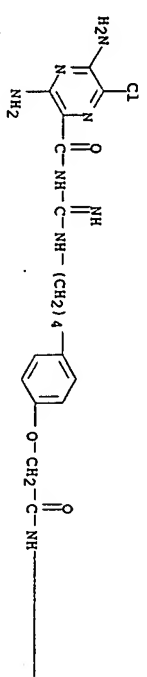


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PAGE 1-B

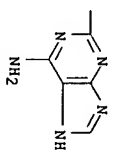
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RN 847200-90-2 CAPLUS
 CN Pyrazinecarboxamide, 3,5-diamino-N-([4-(4-(2-(2-(2,3-dihydroxypropoxy)-2-hydroxypropoxy)phenyl)butyl)amino]methyl)]-6-chloro- (9CI) (CA INDEX NAME)

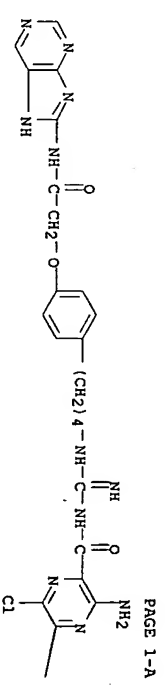


PAGE 1-A

PAGE 1-B



RN 847200-91-3 CAPLUS
 CN Pyrazinecarboxamide, 3,5-diamino-6-chloro-N-([4-(4-(2-oxo-2-(1H-purin-8-ylamino)ethoxy)phenyl)butyl]amino)methyl]- (9CI) (CA INDEX NAME)



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PAGE 1-B

-NH2

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

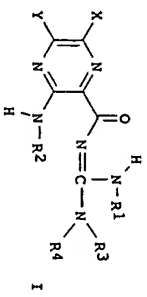
I10 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2006 ACS ON STN
 ACCESSION NUMBER: 2005:158635 CAPLUS
 DOCUMENT NUMBER: 142:261557
 TITLE: Preparation of cyclic pyrazinylguanidine sodium channel blockers

INVENTOR(S): Johnson, Michael R.
 PATENT ASSIGNEE(S): Parion Sciences, Inc., USA
 SOURCE: PCT Int. Appl., 101 pp.
 CODEN: PIXXD2

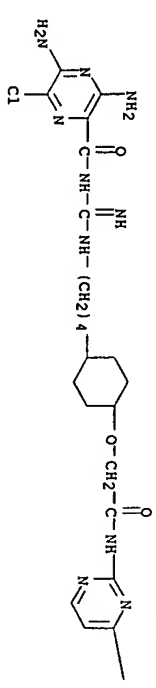
DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TE, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RM: BM, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, A2, BY, BG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GN, GT, GO, GW, ML, MR, NE, SN, TD, TG
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WO 2004-052680 W 20040818
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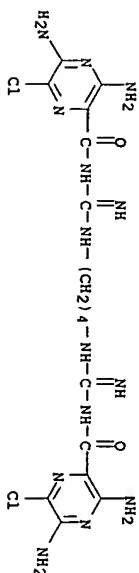
AB The title compds. I [X = halo, etc.; Y = H, hydroxy], etc.; R1 = H, alkyl; R2 = R7, etc.; R3, R4 = H, alkyl, etc.; R7 = (un)substituted Ph, etc], useful as sodium channel blockers (no data), are prepared. Thus, N-(3,5-diamino-6-chloropyrazine-2-carbonyl)-N'-[4-[1-(2-hydroxyethyl)piperidin-4-yl]butyl]guanidine dithydrochloride was prepared in a multistep process starting from 4-(piperidin-4-yl)butyric acid HCl salt. IT R: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USSES (Uses)
RN 845753-79-9 CAPLUS (Preparation of cyclic pyrazinylguanidine sodium channel blockers)
CN Pyrazinecarboxamide, 3,5-diamino-N-[[4-[4-(2-{4-amino-2-pyrimidinyl}amino)-2-oxoethoxy]cyclohexyl]butyl]amino]methyl]-6-chloro- (3Cl) (CA INDEX NAME)



PAGE 1-A

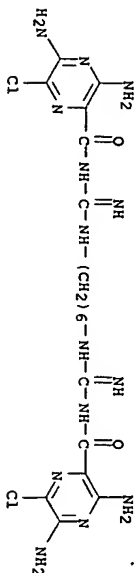
L10 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:63982 CAPLUS
DOCUMENT NUMBER: 134:115971
TITLE: Pyrazinylguanidine derivatives as conjugates of sodium channel blockers and methods of using the same for hydrating mucosal surfaces
INVENTOR(S): Boucher, Richard C., Jr.
PATENT ASSIGNEE(S): University of North Carolina At Chapel Hill, USA
SOURCE: PCT Int. Appl., 48 pp.
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION: THIS IS PRIOR ART

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001005773	A1	20010125	WO 2000-US19775	20000719
W: AE, AG, AL, AM, AT, AU, A2, BA, BB, BE, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NZ, NO, NI, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, BG, KZ, MD, RU, TJ, TM, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG	CA 2378181	20020417	CA 2000-2378181	20000719
EP 1196396	A1	20020417	EP 2000-948820	20000719
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, LT, LV, FI, RO	B1	20021105	US 2000-618978	20000719
US 6475509	N2	516595	A	20000719
N2 516595	A	20030725	N2 2000-516595	20000719
JP 2004513870	T2	20040513	JP 2001-511634	20000719
AU 774865	B2	20040708	AU 2000-62262	20000719
ZA 2002000129	A	20030407	ZA 2002-129	20020107
NO 2002000242	A	20020319	NO 2002-129	20020116
US 2002165339	A1	20021107	US 2002-121913	20020412
US 6607741	B2	20030819	B2	20030819
US 2002158255	A1	20030902	US 2002-121917	20020412
US 6613345	B2	20030902	US 2002-121917	20020412
PRIORITY APPLN. INFO.: MARPAT 134:115971				
OTHER SOURCE(S):				
G1				



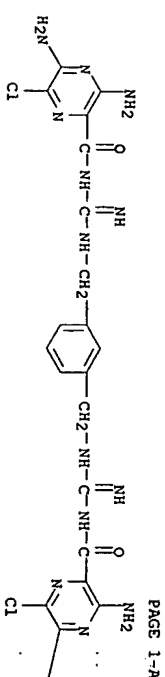
● 2 HBr

RN 321554-69-2 CAPLUS
CN Pyrazinecarboxamide, N,N'-(1,6-hexanediyldis(iminocarbonimidoyl))bis(3,5-diamino-6-chloro-, dihydrobromide (9CI) (CA INDEX NAME)



● 2 HBr

RN 321554-70-5 CAPLUS
CN Pyrazinecarboxamide, N,N'-(1,3-phenylenebis(methylenecarbonimidoyl))bis(3,5-diamino-6-chloro-, dihydrobromide (9CI) (CA INDEX NAME)



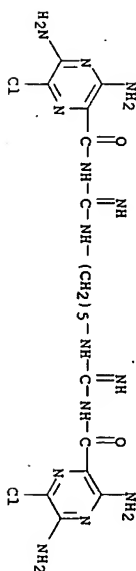
● 2 HBr

PAGE 1-B

— NH₂

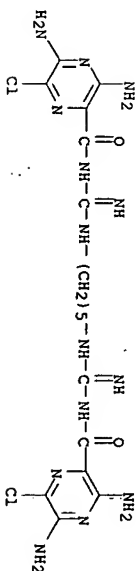
RN 321554-71-6 CAPLUS

CN Pyrazinecarboxamide, N,N'-(1,5-pentanediyldis(iminocarbonimidoyl))bis(3,5-diamino-6-chloro-, dihydrochloride (9CI) (CA INDEX NAME)



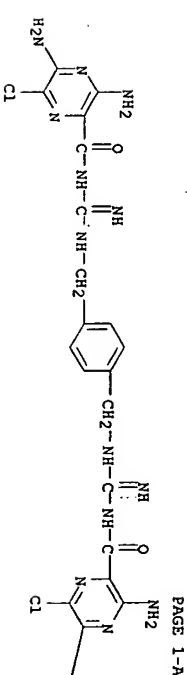
● 2 HCl

RN 321554-72-7 CAPLUS
CN Pyrazinecarboxamide, N,N'-(1,5-pentanediyldis(iminocarbonimidoyl))bis(3,5-diamino-6-chloro-, dihydrobromide (9CI) (CA INDEX NAME)



● 2 HBr

RN 321554-73-8 CAPLUS
CN Pyrazinecarboxamide, N,N'-(1,4-phenylenebis(methylenecarbonimidoyl))bis(3,5-diamino-6-chloro-, dihydrobromide (9CI) (CA INDEX NAME)



● 2 HBr

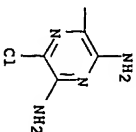
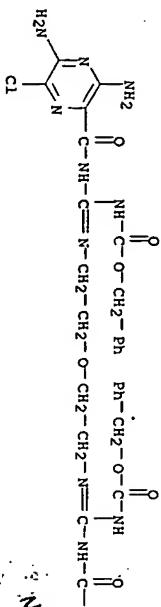
PAGE 1-A

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6156756	A	20001205	US 1999-391843	19990908
PRIORITY APPL. INFO.: MARPAT 134:29423				
OTHER SOURCE(S): GI				

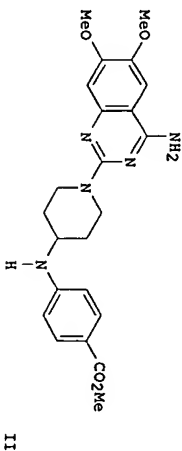
- NH₂

IT 321554-75-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of pyrazinylguanidine deriva. as conjugates of sodium channel
 blockers used for hydration of mucosal surfaces)
 RN 321554-75-0 CAPLUS
 CN 7-Oxa-2,4,10,12-tetraazatricideca-2,10-dienedioic acid, 3,11-bis[(1,3,5-
 diamino-6-chloropyrazinyl)carbonyl]amino]-, bis(phenylmethyl) ester (9CI)
 (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L10 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2000:855763 CAPLUS
 DOCUMENT NUMBER: 134:29423
 TITLE: Preparation of [(quinazolinyl)piperidinyl]amino]benzoat
 es and analogs as bactericides
 INVENTOR(S): John Kung, Pei-Pei Cook, Phillip Dan, Guinosso, Charles
 John
 PATENT ASSIGNEE(S): Isis Pharmaceuticals, Inc., USA
 SOURCE: U.S., 22 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1

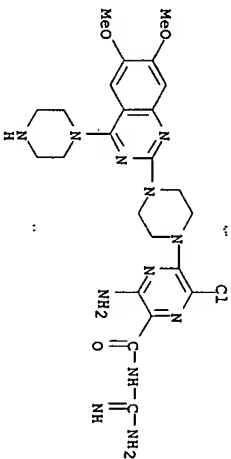


AB R2(NR4)NCO2R1 [I; R = (un)substituted 2-quinazolinyl; R1 = OH,
 (ar)alkoxy, aryloxy, etc.; R4 = H, alkyl, acyl; Z = piperidine- or
 piperazine-1,4-diyl; Z1 = (un)substituted 1,4-phenylene, -pyridine-2,5-
 -5,2-diyl, -pyrazine-2,5-diyl; n = 0 or 1] were prepared. Thus, Me
 3-amino-5,6-dichloro-2-pyrazinecarboxylate was condensed with
 1-protected-4-aminopiperidine and the deprotected product condensed with
 4-amino-2-chloro-6,7-dimethoxyquinazoline to give title compound II. Data
 for biol. activity of I were given.

IT

RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of [(quinazolinyl)piperidinyl]amino]benzoates and analogs as
 bactericides)

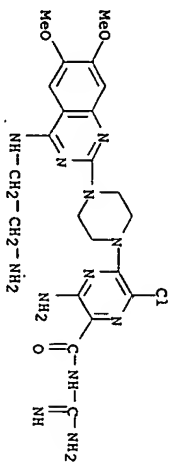
RN 310901-30-5 CAPLUS
 CN pyrazinecarboxamide, 3-amino-N-(aminomethyl)-6-chloro-5-[4-(6,7-
 dimethoxy-4-(1-piperazinyl)-2-quinazolinyl]-1-piperazinyl]-,
 dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

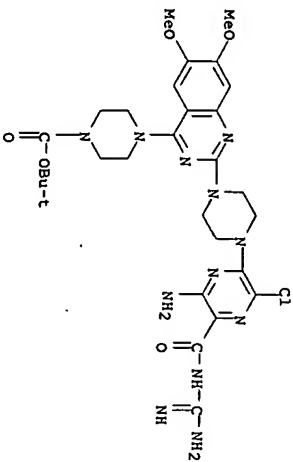
RN 310901-33-8 CAPLUS

CN Pyrazinecarboxamide, 3-amino-5-[4-(4-{2-aminoethyl}amino)-6,7-dimethoxy-2-quinazolinyl]-1-piperazinyl-N-(aminoiminoethyl)-6-chloro-, dihydrochloride (9CI) (CA INDEX NAME)

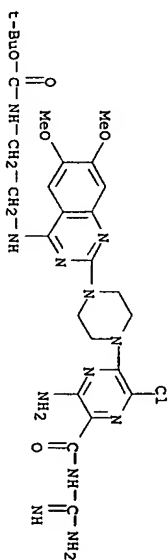


● 2 HCl

IT 310901-41-8P 310901-46-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 Preparation of [(quinazolinyl)piperidinyl]amino]benzoates and analogs as
 bactericides)
 CN 310901-41-8 CAPLUS
 1-piperazinecarboxylic acid, 4-[2-(4-[6-amino-5-
 [(aminoiminoethyl)amino]carbonyl]-3-chloropyrazinyl)-1-piperazinyl]-6,7-
 dimethoxy-4-quinazolinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 310901-46-3 CAPLUS
 Carbanic acid, [2-[2-(4-[6-amino-5-[(aminoiminoethyl)amino]carbonyl]-3-
 chloropyrazinyl)-1-piperazinyl]-6,7-dimethoxy-4-quinazolinyl]amino]ethyl]-
 , 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L10 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1995:789190 CAPLUS
 DOCUMENT NUMBER: 123:198830
 TITLE: Preparation of aminocarbonylpyrazines as drugs.
 INVENTOR(S): Roos, Otto; Speck, Georg; Loesel, Walter; Arndts,
 Dietrich
 PATENT ASSIGNEE(S): Boehringer Ingelheim KG, Germany
 SOURCE: Ger. Offen., 23 pp.
 CODEN: GRXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4337609	A1	19950511	DE 1993-4337609	19931104
CA 2175837	AA	19950511	CA 1994-2175837	19941031
WO 9512592	A1	19950511	WO 1994-EP3580	19941031
W: AU, AU, BG, CA, CN, CZ, FI, GE, HU, JP, KR, KZ, LT, LV, NO, NZ, PL, RO, RU, SI, SK, UA, US, UZ, VN				
RM: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9479936	A1	19950523	AU 1994-79936	19941031
AU 690588	B2	19980430		
EP 726899	A1	19960821	EP 1994-931018	19941031
EP 726899	B1	20000119		
R: AT, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1134131	A	19961023	CN 1994-194016	19941031
JP 09505035	T2	19970520	JP 1994-513010	19941031
AT 188965	E	20000215	AT 1994-931018	19941031
ES 2140565	T3	20000301	ES 1994-931018	19941031
ZA 9408669	A	19950704	ZA 1994-8669	19941103
GR 3033034	T3	20000831	GR 2000-400720	20000322
			DE 1993-4337609	19931104
			WO 1994-EP3580	19941031
OTHER SOURCE(S):			MARKPAT 123:198830	W

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. (I: R1 = H, (hydroxy-substituted, O-interrupted) alkyl, alkenyl, alkynyl, Ph, cycloalkyl, etc.; R2 = Cl, Q2, etc.; R1R2 = Q3, etc.), were prepared as inhibitors of Na+/H+ and Na+/Li+ exchange useful as antihypertensives, antischistosomes, mucolytics, diuretics, anticancer

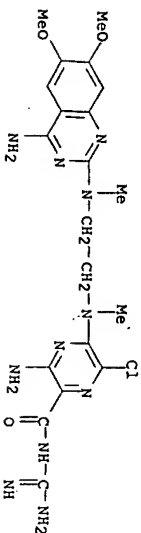
agents, etc. (no data). Thus, N-(4-amino-6,7-dimethoxy-2-quinazolinyl)-N,N'-dimethyl-1,2-diaminoethane, Me-3-amino-5,6-dichloropyrazine-2-carboxylate, and Et3N were heated in Me2SO at 80° to give a residue which was stirred with guanidine hydrochloride in methanolic NaOMe to give Me-3-amino-6-chloro-5-(2-(4-amino-6,7-dimethoxy-2-quinazolinyl)-1-(N,N'-dimethyl-1,2-diaminoethyl)pyrazine-2-carboxylate. This was refluxed in DMF and the residue was treated with HCl in EtOH to give title compound (II).

IT 167684-27-7P

RU: BAC (Biological) activity or effector, except adverse; BSU (Biological study, unclassified); SPN (Synthetic preparation); TRU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USDS (Uses)

RN 167684-27-7 CAPLUS (Preparation of amidinocarbonylpyrazines as drugs)

CN Pyrazinecarboxamide, 3-amino-5-[(2-(4-amino-6,7-dimethoxy-2-quinazolinyl)methylamino)ethyl]amino-N-(aminoaminoethyl)-6-chloro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L10 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:449413 CAPLUS

DOCUMENT NUMBER: 119:48413

TITLE: New pyrazine derivatives, their preparation and their use as ingredients in drugs

INVENTOR(S): Koeppe, Herbert; Speck, Georg; Stockhaus, Klaus

PATENT ASSIGNEE(S): Boehringer Ingelheim International G.m.b.H., Germany; Boehringer Ingelheim KG

SOURCE: PCT Int. Appl., 37 pp.

DOCUMENT TYPE: CODEN: PIXXD2

LANGUAGE: Patent

FAMILY ACC. NUM. COUNT: 2

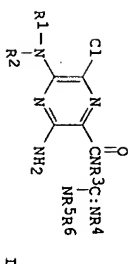
PATENT INFORMATION: German

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9304048	A1	19930304	WO 1992-EP1738	19920731
W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KR, K, LK, LU, MG, MK, MW, NL, NO, PL, RO, RU, SD, SE, US				
RM: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE, BF, BJ, CF, CG, CI, CM, GN, MT, MR, SN, TD, TG				
DE 4127026	A1	19930218	DE 1991-4127026	19910816
DE 4130461	A1	19930318	DE 1991-4130461	19910913
AU 9223870	A1	19930316	AU 1992-23870	19920731
AU 669122	B2	19960530		
EP 598770	A1	19940601	EP 1992-916697	19920731
EP 598770	B1	19971015		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 06509798	T2	19941102	JP 1992-504057	19920731
NO 9400523	A	19940215	NO 1994-523	19940215

PRIORITY APPLN. INFO.: DE 1991-4127026 A 19910816
DE 1991-4130461 A 19910913
WO 1992-EP1738 A 19920731

OTHER SOURCE(S): CASREACT 119:49413; MARPAT 119:49413

GI



I

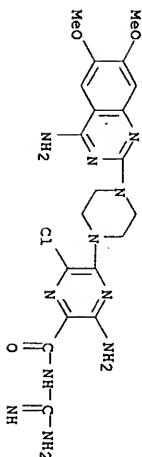
AB A process for the preparation of pyrazine derivative I where R1 = H or alkyl, R2 = functionalized alkyl moiety, R3, R5 = H and R4, R6 = H, Me, Et, Bu, benzyl was accomplished by conventional methods. E.g., reaction of 4.44 g of Me-3-amino-5,6-dichloropyrazine-2-carboxylate and 3.6 g of 2-amino-1-(2,6-dimethylphenoxy)propane with 2.2 g Et3N in 40 mL anhydrous DMF gave an intermediate pyrazinecarboxylic acid ester which underwent subsequent ammonolysis in 50 mL MeOH and 80 mL of methanolic guanidine solution and eluted on silica gel by AcOH:1-PrOH:NH3 eluent to give N-amidino-3-amino-6-chloro-5-(2-(1-(2,6-dimethylphenoxy)propylamino)pyrazine-2-carboxamide-hydrochloride. The products are suitable for use as active ingredients in drugs (no data).

IT 147894-06-2P 147894-29-9P 147932-13-6P

RU: SPN (Synthetic preparation); PREP (Preparation)

RN 147894-06-2 CAPLUS (Preparation of)

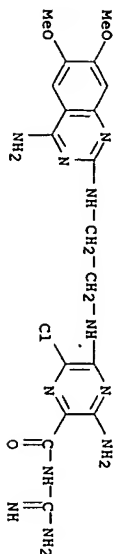
CN Pyrazinecarboxamide, 3-amino-5-(4-(4-amino-6,7-dimethoxy-2-quinazolinyl)-1-pyrazinyl)-N-(aminoaminoethyl)-6-chloro-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

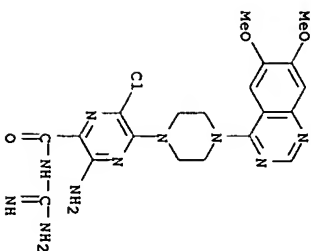
RN 147894-29-9 CAPLUS

CN Pyrazinecarboxamide, 3-amino-5-(4-(4-amino-6,7-dimethoxy-2-quinazolinyl)amino)ethylamino-N-(aminoaminoethyl)-6-chloro-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

RN 147932-13-6 CAPLUS
CN Pyrazinecarboxamide, 3-amino-N-(aminoiminoethyl)-6-chloro-5-(4-(6,7-dimethoxy-4-quinazolinyl)-1-piperazinyl)-, dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

I10 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1993:408831 CAPLUS
DOCUMENT NUMBER: 119:8831
TITLE: Preparation of 2-guanidinocarbonyl-3,5-diamino-6-chloropyrazines as drugs

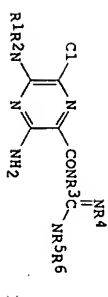
INVENTOR(S): Koeppel, Herbert; Speck, Georg; Stockhaus, Klaus
PATENT ASSIGNEE(S): Boehringer Ingelheim KG, Germany
SOURCE: Ger. Offen., 19 pp.

DOCUMENT TYPE: CODEN: GMMXBX
LANGUAG: Patent
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION: German

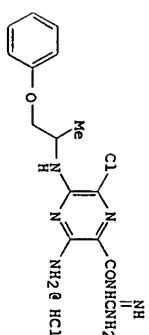
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4127026	A1	19930218	DE 1991-4127026	19910816
WO 9304048	A1	19930304	WO 1992-EPI738	19920731
W:	AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MM, NL, NO, PL, RO, RU, SD, SE, SE, US			

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, SN, TD, TG
AU 9223870 A1 19930316 AU 1992-23870 19920731
AU 669122 B2 19960530
EP 598770 A1 19940601 EP 1992-916697 19920731
EP 598770 B1 19971015
JP 06509798 A 19941102 JP 1992-504057 19920731
HU 67661 A2 19950428 HU 1994-430 19920731
CZ 280760 B6 19960417 CZ 1994-337 19920731
AT 159250 E 19971115 AT 1992-916697 19920731
ES 2108129 T3 19971216 ES 1992-916697 19920731
RU 2124008 C1 19981227 RU 1994-15265 19920731
ZA 9206132 A 19930331 ZA 1992-6132 19920814
NO 9400523 A 19940215 NO 1994-523 19940215
DE 1981-4127026 A 19810816
DE 1991-4130461 A 19910913
WO 1992-EPI738 A 19920731

OTHER SOURCE(S): MARPAT 119:8831
GI



I

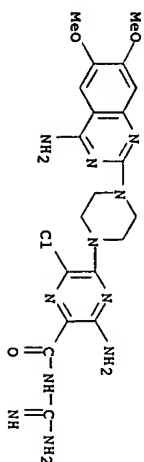


II

AB Title compds. (I; R1 = H, alkyl; R2 = morpholino, (substituted) alkyl, 4-piperidinyl, amidino; R1R2N = (substituted) piperidinyl, piperazinyl; R3-R6 = H, alkyl, PhCH2), effective inhibitors of Na+/H+ and Na+/H+ exchange useful as antihypertensives, mucolytics, diuretics, neoplasm inhibitors, and platelet activating factor antagonists (no data), are prepared. Thus, Me 3-amino-5,6-dichloropyrazine-2-carboxylate, 2-amino-1-(2,6-dimethylphenoxyl)propane, and Et3N were heated in DMF at 95-100° for 1.5 h to give Me 3-amino-6-chloro-5-(2-[1-(2,6-dimethylphenoxyl)propylamino]pyrazine-2-carboxylate. This was heated with guanidine in MeOH to give title compound II.
147894-06-2P 147894-29-9P 147932-13-6P
147932-29-4P

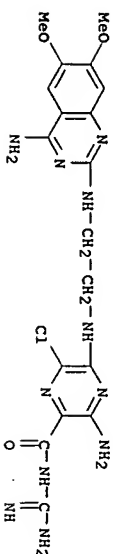
IT RI: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SYN (Synthetic preparation); THU (Therapeutic use); B10L (Biological study); FRP (Preparation); USES (Uses)
(preparation of, as drug)

RN 147894-06-2 CAPLUS
CN Pyrazinecarboxamide, 3-amino-5-(4-(4-amino-6,7-dimethoxy-2-quinazolinyl)-1-piperazinyl)-N-(aminoiminoethyl)-6-chloro-, dihydrochloride (9CI) (CA INDEX NAME)



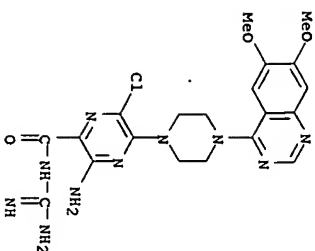
● 2 HCl

RN 147894-29-9 CAPLUS
CN Pyrazinecarbonyl, 3-amino-5-[(2-[(4-amino-6,7-dimethoxy-2-quinazolinyl)amino]ethyl)amino]-N-(aminomethyl)-6-chloro-4-quinazolinyl]-1-piperazine-2-carboxamide (9CI) (CA INDEX NAME)



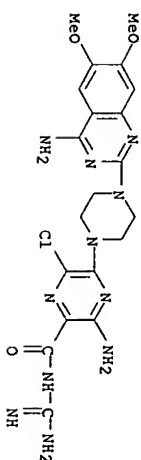
● 2 HCl

RN 147932-13-6 CAPLUS
CN Pyrazinecarbonyl, 3-amino-5-[(2-[(4-amino-6,7-dimethoxy-2-quinazolinyl)amino]ethyl)amino]-N-(aminomethyl)-6-chloro-4-quinazolinyl]-1-piperazine-2-carboxamide (9CI) (CA INDEX NAME)



● 2 HCl
RN 147932-29-4 CAPLUS

CN Pyrazinecarbonyl, 3-amino-5-[(4-[(4-amino-6,7-dimethoxy-2-quinazolinyl)-1-piperazine-2-carboxamide]-N-(aminomethyl)-6-chloro-4-quinazolinyl)-1-piperazine-2-carboxamide (9CI) (CA INDEX NAME)



L10 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1967:37949 CAPLUS
DOCUMENT NUMBER: 66:37949
TITLE: Pyrazinoylguanidines
PATENT ASSIGNEE(S): Merck and Co., Inc.
SOURCE: Neth. Appl., 17 pp.
DOCUMENT TYPE: CODEN: NAXXAN
LANGUAGE: Patent
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION: Dutch

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 6504569		1961010	NL 1965-4369	19650409
FR 1479232			FR	
FR 4498				

OTHER SOURCE(S): MARRPAT 66:37949

GI For diagram(s), see printed CA Issue.

AB The title compds. I (X = halogen; R1-4 = H or alkyl) are prepared by

reaction of 3-(NR3-substituted)-6-(X-substituted)-pyrazine-2-carboxylic acid esters (II) with guanidines H2NC-(NR2)NR3R4 (III). Thus, through

1.5 g. 3-(methylamino)-pyrazine-2-carboxylic acid in 250 ml. MeOH was

passed HCl gas, the solution evaporated, neutralized with NaHCO3 solution,

treated

with 0.5 cc. Br. and filtered to obtain 1.7 g. Me ester of

3-(methylamino)-6-bromopyrazine-2-carboxylic acid (IV), m.

181.5-3.5° (iso-PtOH). Na (0.69 g.) was dissolved in 90 ml. MeOH; to

the cold solution 3.01 g. dry powdered guanidine-HCl was added and the mixture

refluxed 30 min. and filtered; to the filtrate 2 g. IV was added to give

1.1 g. [3-(methylamino)-6-bromo-2-pyrazinoyl]-guanidine, m.

230.5-1.5°. To 23 g. Me ester of 3-amino-6-bromopyrazine-2-

carboxylic acid in 40 cc. AcOH and 114 cc. 48% HBr at 5-10° a solution

of 15 cc. Br. in 40 cc. AcOH was added and the mixture treated at 0-5°

with 17.4 g. NaNO2 in 30 cc. H2O in 1.5 hrs. To this stirred mixture at

20° 200 ml. 10N NaOH and saturated NaHSO3 solution was added to give 17.4

g. Me ester of 3,6-dibromopyrazine-2-carboxylic acid (V), m. 66-8°

(aqueous EtOH). V (6 g.) and piperidine 30 min. at 25° gave the

3-piperidino derivative of V, m. 88-9°; its guanidine derivative m.

220-2°. Me2NH (15 g.) and 6 g. V gave the 3-Me2N derivative of V, m.

105-8°; its guanidine derivative m. 216-18°. The Me ester of

3-bromo-6-chloropyrazine-2-carboxylic acid, m. 35-6° gave the

3-[2-(dimethylamino)ethylamino] derivative, m. 105-8°; its guanidine

derivative m. 221-13°. Ethylenedis[3-(3-amino-6-chloro-2-

pyrazinoyl)guanidine]-2HCl, m. 323°. Treatment of

β-amino-6-chloro-2-pyrazinoylguanidine with AcCl gave the

2,3-diacetylguanidine derivative, m. 187.5-8.5°; the analogous

2,3-di-Bz derivative m. 215-17°. (TABLE OMITTED) Other I (R = R1 = H)

given in the table were prepared. The compds. are diuretics.

13301-07-OP

IT

$$\begin{array}{c} \text{Cl} \\ | \\ \text{N} \\ | \\ \text{C}=\text{N} \\ | \\ \text{NH}_2 \end{array} \text{---} \text{C}(=\text{O})\text{---}\text{NH---}\text{C}(=\text{NH})\text{---}\text{NH---}\text{CH}_2\text{---}\text{CH}_2\text{---}\text{NH---}\text{C}(=\text{NH})\text{---}\text{NH---}\text{C}(=\text{O}) \begin{array}{c} \text{H}_2\text{N} \\ | \\ \text{N} \\ | \\ \text{C}=\text{N} \\ | \\ \text{Cl} \end{array}$$

$\text{CH}_2=\text{CH}_2-\text{NH}-\text{C}(\text{NH}_2)=\text{C}(\text{NH}_2)-\text{N}(\text{H})-\text{C}_6\text{H}_4-\text{N}(\text{H})-\text{C}(\text{NH}_2)=\text{C}(\text{NH}_2)-\text{NH}-\text{CH}_2=\text{CH}_2$
 2 HCl
 Not
 3N
 Cu 82
 ONE INDEPENDENT Cu.
 GUANTINYL
 NOT PERMITTED
 3N (A) AS
 LINKER

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 662507		19651004		
GB 1095792			GB 1963-332901	19631222
US 3240780		19660315	US	19631222

NaCl filtered off, 2 g. III added, and the mixture heated for a short period and kept 1 hr. at room temperature to give 1.1 g. IV. The following com-
pds.

similarly prepared (m.p. given: Me 3,6-dibromopyrazinone, 66-8°; Me 3,6-pyridino-6-bromopyrazinone, 88-90°; Me 3-dimethylamino-6-bromopyrazinone, 80-2; Me 3-bromo-6-chloropyrazinone, 105-8°; Me 3-(2-dimethylaminoethylamino)-6-chloropyrazinone, 105-8°; ethylmethyls[3-(3-amino-6-chloro-2-pyrazinyl)guanidine], - (HCl salt m. 323°); 1-(3-amino-6-chloropyrazinyl)-2,3-diacetylguanidine, -; 1-(3-amino-6-chloropyrazinyl)-2,3-dibenzoylguanidine, 215-17°; 1-(3-methylamino-6-trifluoromethylpyrazinyl)-3-benzylguanidine, -; 1-(3-amino-6-trifluoromethylpyrazinyl)-2,3-diacetylguanidine, -; 1-(3-amino-6-trifluoromethylpyrazinyl)-3,3-dimethylguanidine, -. Similarly prepared were the tabulated I. (TABLE OMITTED)

13301-07-0P

NC1=NC=C(NC(=O)NC(=O)NCCNC(=O)N2C=NC(Cl)=CN2)C(Cl)=CN1

2 HCl

CORPORATE SOURCE: Meck & Co., Inc., West Point, PA
SOURCE: Journal of Medicinal Chemistry (1965), 8 (5), 638-42
DOCUMENT TYPE: CODEN: JMCMAR; ISSN: 0022-2623
Journal
English
Abstracts

OTHER SOURCE(S) : CASREACT 63:63090
ENGLISH

AB A series of N-amidino-3-amino-6-halopyrazinecarboxamides was prepared principally by the reaction of the 3-amino-6-halopyrazinecarboxylates with guanidine or substituted guanidines. A number of these compps. reverse the electrolyte excretion effects of deoxycorticosterone in the adrenalectomized rat and cause natriuresis in the intact rat and dog while leaving unaffected or even repressing K⁺ excretion.

IT 96878-31-8, Pyrazinecarboxamide, N,N'-[ethylenbis[[imino]mido]carbonyl]]bis[3-amino-6-chloro-, hydrochloride (preparation of)

RN 96878-31-8 CAPLUS

CN Pyrazinecarboxamide, N,N'-[ethylenbis[[imino]mido]carbonyl]]bis[3-amino-6-chloro-, hydrochloride (TCI) [CA INDEX NAME]

NC1=NC=C(C(=O)NCCNCCNCC(=O)N2C=NC=C(Cl)N2)N1

● x HCl

=> LOG HOLD	SINCE FILE	TOTAL
COST IN U.S. DOLLARS		

∴ NO PRIOR ART.

FULL ESTIMATED COST	ENTRY	SESSION
	56.67	557.70
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	-8.25	-8.25

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 08:40:33 ON 11 OCT 2006